



Bevan K. Baker,
Commissioner of Health
www.milwaukee.gov/health

City of Milwaukee Health Department Laboratory

www.milwaukee.gov/Health-Laboratories

Phone: (414) 286-3526

SUMMARY OF CONFIRMED INFECTIONS

Steve Gradus, PhD, D(ABMM)
Laboratory Director

February 2012

Sanjib Bhattacharyya, PhD
Chief Molecular Scientist

Syphilis

Test	Total	Test	Total
RPR Reactive	5	TPPA Reactive	20
VDRL Reactive	30	Darkfield Positive	0

New Cases of Syphilis

Stage	Number of Cases	
	February 2012	February 2011
Primary syphilis	0	0
Secondary syphilis	1	0
Early latent	2	1
Late latent	0	0
Total	3	1

Source: Wisconsin Division of Health

Gonorrhea Antimicrobial Susceptibility Testing

Number Tested	Decreased Susceptible (DS) / Resistant (R) Antibiotics			
	Ciprofloxacin	Cefixime	Ceftriaxone	Azithromycin
35	1 (DS); 2(R)	0	0	0

Isolates Other Than *N. gonorrhoeae*

Organism	Site	Number Isolates	Organism	Site	Number Isolates
<i>Ureaplasma urealyticum</i>	Genital	5	<i>Mycoplasma hominis</i>	Genital	2

Mycobacterial Infections

Age	Sex	Test Results				Identification
		Sputum Smear	Culture	DNA Probe	PCR	
59	M	-	+	+	-	<i>M. avium</i> complex
		-	+	ND	-	<i>M. xenopi</i>
71	F	-	+	+	-	<i>M. avium</i> complex
		-	+	ND	-	<i>M. fortuitum</i> group

ND = Not done

Enteric Parasites Identified

Age	Sex	Parasite
43	M	<i>Cryptosporidium</i> species
35	M	<i>Cryptosporidium</i> species
		<i>Giardia lamblia</i>
52	F	<i>Endolimax nana</i>
17	M	<i>Entamoeba coli</i>
19	F	<i>Entamoeba coli</i>
28	F	<i>Entamoeba coli</i>
		<i>Entamoeba coli</i>
15	M	<i>Entamoeba coli</i>
		<i>Giardia lamblia</i>
23	M	<i>Entamoeba coli</i>
		<i>Entamoeba histolytica/Entamoeba dispar</i>
		<i>Iodamoeba buetschlii</i>
37	F	<i>Entamoeba coli</i>
		<i>Trichuris trichiura</i>
32m	F	<i>Giardia lamblia</i>

Reference Cultures

Age	Sex	Source	Identification
27	F	Vagina	<i>Neisseria gonorrhoeae</i>
3	F	Vagina	<i>Neisseria gonorrhoeae</i>
18	F	Throat	<i>Neisseria meningitidis</i>
21	M	Throat	<i>Neisseria meningitidis</i>
20	F	Blood	<i>Neisseria mucosa</i>
56	F	Stool	<i>Salmonella Enteritidis</i>
7m	M	Blood	<i>Salmonella Heidelberg</i>
7m	M	Stool	<i>Salmonella Heidelberg</i>
91	F	Stool	<i>Salmonella Infantis</i>
52	F	Stool	<i>Salmonella Litchfield</i>

34	M	Stool	<i>Salmonella</i> Muenchen
62	M	Stool	<i>Salmonella</i> Stanley
47	M	Stool	<i>Salmonella</i> Thompson

DNA Sequencing: The MHD laboratory uses 16S rRNA and the D2 region of the 26S rRNA genes for DNA sequence-based microbial identification of selective reference bacteria and fungus isolates

Reference Microbe	Age	Sex	Source	Target gene	Final Identification
Bacteria	61	M	Blood	16S	<i>Bacillus fusiformis</i>
Bacteria	62	M	Blood	16S	<i>Lactobacillus jensenii</i>
Bacteria	79	F	Thumb	16S	<i>Nocardia brasiliensis</i>

Viruses Detected from Clinical Specimens

Age	Sex	Source	Symptoms	Agent
24	F	NP	R/O influenza	Influenza A (H3)
18	M	Throat	Cough, sore throat	Coronavirus OC43
21	M	Throat	Cough, sore throat	Coronavirus 229E
19	F	Throat	Myalgia, cough, sore throat, nausea, headache	Human Metapneumovirus
20	M	Throat	Fever, myalgia, cough	Respiratory Syncytial Virus
18	M	Forehead	R/O Varicella-zoster	Varicella-zoster Virus

Influenza Real-time RT-PCR Testing

Samples Tested	Influenza A (H3) Positive
21	1

Herpes Simplex Virus Isolations

Agent	Number of Isolates
Herpes Simplex type 1	10
Herpes Simplex type 2	6

Molecular Amplification and PCR

Agent	Method	Tested	Positive	% Positive
Norovirus	RT-PCR	22	10*	45%
Bordetella pertussis/parapertussis	RT-PCR	3	0	0%

*All Norovirus genogroup II

Chlamydia (CT) and Gonorrhea (GC) Molecular Testing

Source	Tested	Positive	% Positive
Urine	601	64 (CT)	10.6%
		39 (GC)	6.5%
Throat swabs	238	3 (CT)	1.3%
		13 (GC)	5.5%
Rectal swabs	49	8 (CT)	16.3%
		6 (GC)	12.2%
Cervical or urethral swabs	4	1 (CT)	25%
		1 (GC)	25%

Respiratory Virus Surveillance:

Influenza:

Milwaukee area MHDL data, as of March 21, 2012: Increase in local influenza activity,

- Influenza PCR positive: 11 (9.4%) (n=117).
- A(H3): 7 (63.6%)
- 2009 H1N1: 2 (18.12%)
- Influenza B: 2 (18.12%).

Wisconsin week ending March 10, 2012: Increase in regional influenza activity.

- Influenza by PCR: 225 (27.4%) (n=821)
- Influenza A:
 - A(H3): 71 (31.5%)
 - 2009 H1N1: 12 (5.3%)
 - Influenza B: 28 (12.4%)

Nationally, for the week ending March 17, CDC reported continued increase in influenza activities.

- Influenza (A or B) detected: 1,353/5088 (26.6%)
- Influenza A: 1,262 (93.3%)
 - (H3): 559 (44.3%)
 - 2009 H1N1: 211 (16.7%)
 - untypable: 559 (44.3%)
- Influenza B: 91 (6.7%)

Other Respiratory Virus:

SE Wisconsin other circulating respiratory viruses (n=27), include:

- Human Metapneumovirus (hMPV): 4 (14.8%)
- Coronavirus (229E & OC43): 4 (14.8%)
- Respiratory Syncytial virus (RSV): 1 (3.7%)